**avigilon**™
a Motorola Solutions Company

# H4 Mini Dome Camera

The H4 Mini Dome is the smallest and most discreet camera within the Avigilon H4 platform, ideal for space-constrained applications requiring a minimal footprint surveillance camera. The innovative and modular design of this camera line allows it to snap into surface, in-ceiling, or pendant mount adaptors to easily fit challenging installations. This camera line provides exceptional image quality, LightCatcher™ technology, dual exposure true Wide Dynamic Range (WDR) and adaptive IR on selected variants, all at an entry level price point. Using HDSM SmartCodec™ technology, Idle Scene Mode technology and patented High Definition Stream Management™ technology, H4 Mini Dome cameras minimize bandwidth and storage requirements, while maintaining a high-quality image.

Standard surface mount model has a footprint of only 2.9 inches, extending 2.0 inches from the installation surface. The optional in-ceiling adapter offers a profile of only 1.5 inches, with a footprint of 3.5 inches. This camera line is ideal for space-constrained or discreet applications while providing an aesthetically pleasing solution for indoor environments such as hallways, public entrances and lobbies of banks, schools, retail outlets and hotels.

H4 Mini Dome's state-of-the art modular design allows it to snap into your choice of base, easily switching between surface, in-ceiling, and pendant mounts. This design reduces installation time and provides flexibility to installers. The optional black accessories provide further customization to match the environment.

Combining the powers of our HDSM™, HDSM SmartCodec, and Idle scene mode technologies along with the easy to install modular design, the H4 Mini Dome camera line provides a reliable security solution with minimal total cost of ownership.
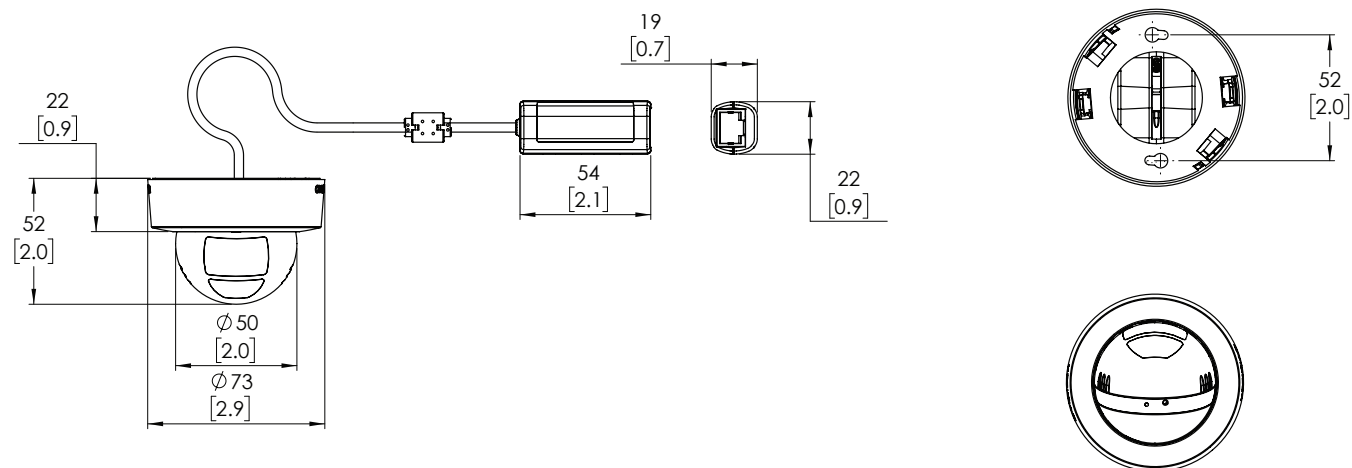
## KEY FEATURES

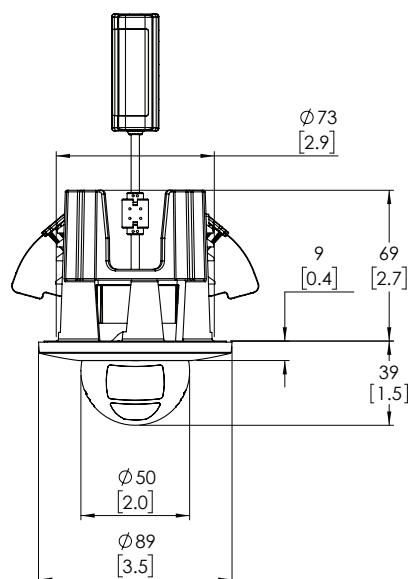| |
|---|
| 1.3, 2.0 and 3.0 megapixel resolution models |
| Fixed 2.8mm, f1.2 lens |
| Small, discreet form factor ideal for indoor applications |
| Innovative modular design for quick and easy installation |
| Content adaptive IR technology provides effective illumination through the field of view, while maintaining exceptional scene illumination |
| Avigilon LightCatcher technology provides exceptional image quality in low light environments |
| Dual exposure Wide Dynamic Range for complex lighting environments |
| Integrated IR LEDs provide uniform illumination in the dark, even at 0 lux, up to maximum of 10m (32ft) IR on selected models |
| Avigilon HDSM SmartCodec Idle scene mode technology for reduced bandwidth and storage requirements |
| Integrates with Avigilon Control Center™ video management software (VMS), and is ONVIF-compliant for integration with a third party VMS. |

# Specifications

## IMAGE PERFORMANCE

| | | 1.3 MP | 2.0 MP | 3.0 MP |
|---|---|---|---|---|
| Image Sensor | | 1/2.8" Progressive Scan CMOS | | |
| Aspect Ratio | | 5:4 | 16:9 | 4:3 |
| Active Pixels (H x V) | | 1280 (H) x 1024 (V) | 1920 (H) x 1080 (V) | 2048 (H) x 1536 (V) |
| Imaging Area (H x V) | | 3.7 mm x 3.0 mm, 0.145" x 0.118" | 5.6 mm x 3.1 mm; 0.22" x 0.122" | 5.12 mm x 3.84 mm; 0.202" x 0.157" |
| Imaging Rate | | 30 fps | 30 fps | 20 fps |
| Minimum Illumination | With IR | 0.01 lux in color mode; 0 lux (F/1.2) in monochrome mode | | 0.02 lux in color mode; 0 lux (F/1.2) in monochrome mode |
| | Without IR | 0.01 lux in color mode; 0.002 lux (F/1.2) in monochrome mode | | 0.02 lux in color mode; 0.004 lux (F/1.2) in monochrome mode |
| IR Illumination | | 10 m (33 ft) max. distance at 0 lux | | |
| Dynamic Range | | 100 dB | | |
| Resolution Scaling | | Down to 384 x 216 | | |
| 3D Noise Reduction Filter | | Yes | | |

## LENS

| | 1.3 MP | 3.0 MP |
|---|---|---|
| Lens | 2.8mm, F1.2, IR Corrected | |
| (Aspect Ratio) HFOV | (5:4) 74°; (16:9) 110° | (5:4) 94°; (16:9) 100°; (4:3) 100° |

## IMAGE CONTROL

| | |
|---|---|
| Image Compression Method | H.264 (MPEG-4 Part 10/AVC), Motion JPEG |
| Streaming | Multi-stream H.264 and Motion JPEG |
| Bandwidth Management | HDSM; HDSM SmartCodec; Idle Scene Mode |
| Motion Detection | Pixel |
| Tamper Detection | Yes |
| Electronic Shutter Control | Automatic, Manual (1/6 to 1/8000 sec) |
| Iris Control | Fixed |
| Day/Night Control | Automatic, Manual |
| Flicker Control | 50 Hz, 60 Hz |
| White Balance | Automatic, Manual |
| Backlight Compensation | Adjustable |
| Privacy Zones | Up to 64 zones |

## NETWORK

| | |
|---|---|
| Network | 100BASE-TX |
| Cabling Type | CAT5 |
| Connector | RJ-45 |
| ONVIF | ONVIF compliant with version 1.02, 2.00, Profile S |
| Security | Password protection, HTTPS encryption, digest authentication, WS authentication, user access log, 802.1x port based authentication |
| Protocols | IPv6, IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, DHCP, Zeroconf, ARP |
| Streaming Protocols | RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP |
| Device Management Protocols | SNMP v2c, SNMP v3 |

## MECHANICAL

| | | SURFACE MOUNT | IN-CEILING MOUNT | PENDANT MOUNT |
|---|---|---|---|---|
| Dimensions (LxWxH) | | 73 mm x 73 mm x 52 mm; 2.9" x 2.9" x 2.0" | 89 mm x 89 mm x 39 mm; 3.5" x 3.5" x 1.5" | 73 mm x 73 mm x 113mm; 2.9" x 2.9" x 4.4" |
| Max. Ceiling Thickness | | n/a | 1.0" | n/a |
| Cable Assembly Length | | 24cm; 9.4" | | |
| Weight | | H4M-D1 - 118 g, 0.26 lbs | H4M-D1 - 152 g, 0.34 lbs | H4M-D1 - 162 g, 0.35 lbs |
| Body | | Polycarbonate and aluminum | | |
| Housing | | Recessed mount | Surface mount, Max. Ceiling Thickness 1.0" | Pendant mount, Female 1/2" NPT Thread |
| Finish | | Cool grey, black | | |
| Adjustment Range | | 360° pan, -5° to 75° tilt, ±115° azimuth | | |

## ELECTRICAL

| | |
|---|---|
| Power Consumption | 4W |
| Power Source | PoE: IEEE802.3af Class 2 compliant |

## ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature | 0 °C to 50 °C (32 °F to 122 °F) |
| Storage Temperature | -30 °C to 70 °C (-22 °F to 158 °F) |
| Humidity | 0 - 95% non-condensing |
| Environment | Indoor Applications |

## CERTIFICATIONS

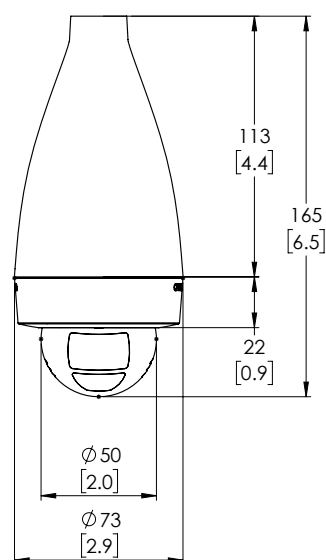| | |
|---|---|
| Certifications/Directives | UL, cUL, CE, ROHS, WEEE, RCM, EAC, KC, BIS |
| Safety | UL 62368-1, CSA 62368-1, IEC/EN 62368-1, IEC 62471 |
| Electromagnetic Emissions | FCC Part 15 Subpart B Class B, IC ICES-003 Class B, EN 55032 Class B, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, KN 32 |
| Electromagnetic Immunity | EN 55024, EN 61000-6-1, EN 50130-4, KN 35 |

# Outline Dimensions

| [X.X] | MM |
|-------|-----|
| X | INCHES |

## Surface



## In Ceiling



## Pendant



# Ordering Information

| | MP | WDR | LIGHTCATCHER TECHNOLOGY | LENS | IR | HDSM SMARTCODEC |
|---|---|---|---|---|---|---|
| 1.3C-H4M-D1 | 1.3 | ✓ | ✓ | 2.8 mm | | ✓ |
| 1.3C-H4M-D1-IR | 1.3 | ✓ | ✓ | 2.8 mm | ✓ | ✓ |
| 2.0C-H4M-D1 | 2 | ✓ | ✓ | 2.8 mm | | ✓ |
| 2.0C-H4M-D1-IR | 2 | ✓ | ✓ | 2.8 mm | ✓ | ✓ |
| 3.0C-H4M-D1 | 3 | ✓ | ✓ | 2.8 mm | | ✓ |
| 3.0C-H4M-D1-IR | 3 | ✓ | ✓ | 2.8 mm | ✓ | ✓ |

| | |
|---|---|
| H4M-BZL-BL1 | Package of 5 black surface mount bezels for H4M dome cameras |
| H4M-MT-DCIL1 | In-ceiling mount adapter for H4M dome cameras |
| H4M-MT-DCIL1-BL | Black in-ceiling mount adapter for H4M dome cameras |
| H4M-MT-NPTA1 | Pendant mount adapter for H4M dome cameras |
| H4M-MT-NPTA1-BL | Black pendant mount adapter for H4M dome cameras |

Jan 2020 — Rev 10